

Title (en)

Tire mountable on a rim, sensor network, revolution sensing device and vehicle monitoring system

Title (de)

Auf einer Felge montierbarer Luftreifen, Sensornetz, Umdrehungsmesseinheit und Fahrzeugüberwachungssystem

Title (fr)

Pneu montable sur une jante, système de réseau à capteurs, dispositif pour mesurer la rotation et système de surveillance de véhicule

Publication

**EP 1356957 B1 20040825 (DE)**

Application

**EP 03009401 A 20030425**

Priority

DE 10218781 A 20020426

Abstract (en)

[origin: EP1356957A2] A pneumatic tire comprises numerous inner sensor units (38) for determining operating parameters of the tire. The sensors can select measured values, and are attached to a fibre network (41) which is vulcanized into the tire. The network fibres (40) are electrically conducting and can be connected to a central unit (42). The connection between the central unit and the sensor units is such that individual sensors can be interrogated by the central unit. The latter contains a storage unit for the measured values, and a transponder (43). The sensors pick up temperature, pressure and mechanical loading. A rotational speed measurement unit is located in the tire and consists of a sensor and a storage unit.

IPC 1-7

**B60C 11/24**; **B60C 23/04**

IPC 8 full level

**G08C 19/00** (2006.01); **B60C 11/24** (2006.01); **B60C 19/00** (2006.01); **B60C 23/00** (2006.01); **B60C 23/04** (2006.01); **B60C 23/06** (2006.01); **B60C 23/20** (2006.01); **G08C 17/02** (2006.01)

CPC (source: EP US)

**B60C 11/24** (2013.01 - EP US); **B60C 11/246** (2013.01 - EP US); **B60C 19/00** (2013.01 - EP US); **B60C 23/0408** (2013.01 - EP US); **B60C 2019/004** (2013.01 - EP US); **B60T 2210/13** (2013.01 - EP US)

Cited by

CN110228333A; EP3287304A1; IT201600079463A1; CN109476193A; EP4197768A1; WO2018054584A2; WO2010086250A1; EP1973055B1; WO2018028850A1; WO2018054584A3; WO2018095615A1; EP3915811A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1356957 A2 20031029**; **EP 1356957 A3 20031112**; **EP 1356957 B1 20040825**; AT E274420 T1 20040915; AT E355189 T1 20060315; AU 2003222838 A1 20031110; DE 10218781 A1 20031113; DE 50300060 D1 20040930; DE 50306661 D1 20070412; EP 1499508 A1 20050126; EP 1499508 B1 20070228; ES 2227494 T3 20050401; JP 2003320827 A 20031111; JP 2005528270 A 20050922; JP 4242200 B2 20090318; US 2003201044 A1 20031030; US 2005150283 A1 20050714; US 7158018 B2 20070102; US 7320246 B2 20080122; WO 03091046 A1 20031106; WO 03091046 A8 20040408

DOCDB simple family (application)

**EP 03009401 A 20030425**; AT 03009401 T 20030425; AT 03718789 T 20030425; AU 2003222838 A 20030425; DE 10218781 A 20020426; DE 50300060 T 20030425; DE 50306661 T 20030425; EP 0304329 W 20030425; EP 03718789 A 20030425; ES 03009401 T 20030425; JP 2003122740 A 20030425; JP 2003587639 A 20030425; US 42203103 A 20030423; US 51272604 A 20041026